

CONCRETE

Journal of The Concrete Society

Index Volume 17, 1983

Managing Editor
P V Maxwell-Cook

Editor
R J Barfoot

CONCRETE and The Concrete Society (limited by guarantee) are responsible neither for the statements made nor the opinions expressed in the journal.

Articles

A, B

Airey houses, On-site repairs to 2:14
Aggregate foundations for Korean 10:17
nuclear power plant, Pre-placed
Alkali aggregate reaction in concrete — 10:55
assessing and minimising the risks
American approach, Superflat 5:42
concrete: an
Analysis of fresh concrete 6:12
Anchorage design with finite element 7:45
techniques
Architecture
Civic pride at Swansea 1:28
Scottish special housing 1:32
'Sea view' old people's flats 1:32
Thames Side House, Staines 1:31
Up-market architectural 11:30
ornamentation
Wildfowl Centre designed for visual 1:34
sensitivity
Arch units, Wave walls and 11:27
Award 1983, Site Practice 11:23
Aspects of architecture 1:27
Aspects of driven in situ piling 10:23
Associations — BACMI, The 10:33
Assurance in the construction industry, 9:39
Quality
BACMI, The Associations 10:33
Barbican Centre for Arts and 6:20
Conferences — CS Award joint winner,
Building category
Batching plant, Low profile 4:46
Belgian foothold on UK paving scene 8:25
Better concrete — how?, Towards 11:37
Birmingham offices, Complex panel 5:38
design for
Block maker rides the storm, A 8:21
Block paving
Belgian foothold on UK paving scene 8:25
Block maker rides the storm, A 8:21
Interlocking block paving by the acre! 3:25

Interlocking paving in Europe 3:32
letter
Precast block paving — a review 11:51
Structural behaviour of concrete 8:13
block paving
UK's longest block paved road 8:17
Block plant at Lechlade, New 9:37
Block production, Fully automated 9:40
Bond coats in concrete repair, Use of 2:46
Borescope, Inspection by 8:34
Brick at Bristol, Concrete complements 6:64
Bricks and brackets, Browsing through 6:38
Bridges 6:44
Cannon Street rail bridge, The 5:50
Concrete bridges — performance, 3:48
maintenance and repair
Cracks in a concrete bridge 7:40
Dutch development helps complete 9:51
Saudi bridge
Grouting post-tensioned tendons 11:32
Solving problems at Glasgow's Loop 2:34
'U' bridge
Brighter future, A broader base for a 10:46
Bristol, Concrete complements brick at 6:38
Broader base for a brighter future, A 10:46
Browsing through bricks and brackets 6:44
C, D
CAA's role in the ready-mixed industry 4:17
Campaign for practical Codes of 2:9
Practice, The
Cannon Street rail bridge, The 5:30
Canoe construction, Concrete 5:47
Canoe races, Concrete Society 8:47
Canute couldn't do it, King 5:33
Cardiff flood protection 1:12
Carsington Dam tunnel lining, Quality 3:29
concrete for
Castles in the clouds 3:35
Chance to meet Tony Cusens, A 9:12
Chesterfield town centre — CS Award 6:34
commended, Landscape category
Civic pride at Swansea 1:28
Coalfield and a lone concrete structure, 7:28
Selby
Codes of Practice, The campaign for 2:9
practical
Comparative cube testing — a review 12:19
Complex formwork for cooling volutes 5:14
Complex panel design for Birmingham 5:38
offices
Computer based distribution control 4:15
Computerisation of a housefloor 8:36
company
Concrete bridges — performance, 3:48
maintenance and repair
Concrete canoe construction 5:47
Concrete Society canoe races 8:47
Concrete choice, A 1:17
Concrete complements brick at Bristol 6:38
Concrete jacket, How to make a 5:45
Concrete offshore structures — the 3:36
next ten years
Concrete repair: the role of resin 2:19
compositions
Concrete Society Award 1983
Personal thoughts from the President 6:18
Building 6:20
Civil Engineering 6:29
Landscape 6:34
Concrete testing — is performance 12:17
assured?
Confusion, Fire resistance 8:42
Continuity strips progress since Snow 9:19
Award
Cooling volutes, Complex formwork 5:14
for
Corrosion in concrete, A review of steel 6:13
Corrosion of reinforcement 6:48
Cottage, New foundations for an 11:35
ancient
Cracks in a concrete bridge 7:40
Cracks in concrete, Repairs to 2:26
Creteco launch new rebar system 5:16
Croker's confidence in the Cumflow 9:42
Cube testing — a review, Comparative 12:19
Cumflow, Croker's confidence in the 9:42

Cusens, A chance to meet Tony	9:12	GRC — an ongoing story	4:42	Partial prestressing	7:13
Customer's demands, Meeting the	9:45	Grouting post-tensioned tendons	11:32	Past meets present at Fetter Lane	2:11
Design and detail	9:27	Handling, Paving slab production and	12:29	Paving slab production and handling	12:29
Direct Electric Curing, Recent	3:21	Harmonised international standard for	4:21	Paving scene, Belgian foothold on UK	5:25
developments in		concrete		Performance assured?, Concrete	12:17
Dome building — modern techniques	6:40	Henke machines mark the Beckett's	7:47	testing — is	
Durability	4:27	success saga			
Dutch development helps complete	9:51	Hemel Hempstead's high bay warehouse	3:17	Personal thoughts from the President—	6:18
Saudi bridge		High speed precasting	1:50	CS Award 1983	
E, F		Housefloor company, Computerisation	8:36	Piling and foundations	
Economic alternative, Precast concrete	2:41	of a		Aspects of driven in situ piling	10:23
in building — The	8:28	How to make a concrete jacket	5:45	Foundation engineering — past,	10:7
Economics of multi-storey	5:35	Hundred years, Lloyd's Room to last	4:36	present and future	
construction, The		for a		Mass concrete foundations—benefits	10:15
ERMCO 83		Hydrocrete, Remote controlled	11:12	from OPC replacement	
CAA's role in the ready-mixed	4:17	Influence of carbonation and chlorides	1:16	New foundations for an ancient	11:35
industry		on concrete durability		cottage	
Computer-based distribution control	4:15	In-service performance of reinforced	12:9	Piling and foundations guide	10:25
Durability	4:27	structures containing pulverised fuel ash		Piling — the decision making	10:11
Eurocodes	4:18	In situ piling, Aspects of driven	10:23	process	
ERMCO exhibition — a preview	4:31	Inspection by borescope	6:64	Piled raft foundations — measurement	10:13
Harmonised international standard	4:21	Interlocking block paving — by the	3:25	of load and movement	
for concrete		acre!		Pre-placed aggregate foundations for	10:17
Meeting Europe's needs for quality	4:10	Interlocking paving in Europe	3:32	Korean nuclear power plant	
concrete		J, K, L		Procedures and specifications	10:9
Quality assurance and ready-mixed—	4:22	Joint Report on Formwork	5:13	Post-tensioned tendons, Grouting	11:32
how do they match up?		King Canute couldn't do it	5:33	Post-tensioned warehouse slabs	7:17
Recent developments in plant for	4:14	Korean nuclear power plant, Pre-placed	10:17	Precast	
ready-mixed		aggregate foundations for		Browsing through bricks and brackets	6:44
Eurocodes	4:18	Lechlade, New block plant at	9:40	Civic pride at Swansea	1:28
Factors influencing the workability of	2:42	Let's all subcontract our jobs and be	5:23	Complex panel design for	5:38
steel-fibre reinforced concrete II		made redundant!		Birmingham offices	
Falsework and formwork		Lloyd's Room to last for a hundred	4:36	Computerisation of a housefloor	8:36
Cannon street rail bridge, The	5:30	years		company	
Complex formwork for cooling volutes	5:14	Load and movement, Piled raft	10:13	Concrete complements brick at	6:35
Creteco launch new rebar system	5:16	foundations—measurement of		Bristol	
Falsework and formwork—state of the	5:18	Low profile batching plant	4:46	Hemel Hempstead's high bay	3:17
art		M, N, O		warehouse	
Formwork pressures	5:27	Mac-Fab precast machine	8:44	High speed precasting	1:50
Joint Report on Formwork	5:13	Machinery		How to make a concrete jacket	5:45
Let's all subcontract our jobs and be	5:23	Henke machines mark the Beckett's	7:47	Past meets present at Fetter Lane	2:11
made redundant!		saga		Precast block paving — a review	8:13
Whither falsework and formwork?	5:12	Mac-Fab precast machine	8:44	Precast concrete in building — the	2:41
Fetter Lane, Past meets present at	2:11	Moffet's machines on view	1:18	economic alternative	8:28
Fibrous concrete tunnel support, Sprayed	11:19	Seen at Public Works	2:38	Progress in precast concrete	3:11
Field investigation of concrete structures	3:54	Made to measure	1:53	Recent developments in Direct	3:21
in south west England, Part 1		Mass concrete foundations — benefits	10:15	Electric Curing	
Field investigation of concrete structures	4:60	from OPC replacement		Some thoughts on precast concrete —	3:10
in south west England, Part 2		Measure, Made to	1:53	its role and its future	
Finite element techniques, Anchorage	7:25	Meeting Europe's needs for quality	4:10	UK demo for US cutter	3:22
design with		concrete		Wave walls and arch units	11:27
Fire resistance confusion	8:42	Meeting the customer's demands	9:45	Wokingham 'hi-tech' woodland	10:37
Fire resistance — the practical problems	9:21	Membranes in floor construction	1:23	wonder	
Flood protection, Cardiff	1:12	Moffet's machines on view	1:18	Pre-placed aggregate foundations for	10:17
Floors		Mortar joint, friend or foe?, The	3:34	Korean nuclear power plant	
Computerisation of a housefloor	8:36	Multi-storey construction, The	5:33	Prestressing	
company		economics of		Anchorage design with finite element	7:25
Membranes in floor construction	1:23	New block plant at Lechlade	9:40	analysis	
Post-tensioned warehouse slabs	7:17	New foundations for an ancient cottage	11:35	Cracks in a concrete bridge	7:40
Principles of prestressed floors	10:42	Niffany Viaduct, Skipton—CS Award	6:29	Partial prestressing; an introduction	7:13
Superflat concrete: an American	5:42	winner Civil Engineering category		to The Concrete Society Report	
approach		Nuclear power plant, Pre-placed		No 23	
Testing time for floor screeds, A	12:13	aggregate foundations for Korean			
Floor construction, Membranes in	1:23	Offshore structures — the next ten			
Formwork and falsework	6:55	years, Concrete			
Formwork pressures	5:27	One code for concrete?	3:46		
Foundation engineering — past, present	10:7	On-site repairs to Airey houses	2:14		
and future		OPC replacement, Mass concrete	10:15		
Franchise, Fresh to a	9:46	foundations—benefits from			
Fresh concrete, Analysis of	6:12	Orwell Bridge, Suffolk — CS Award	6:31		
Fresh to a franchise	9:46	high commendation, Civil Engineering			
Fully automated block production	2:46	category			
G, H, I		P, Q			
German repair technique, UK debut for	8:40	Panel design for Birmingham offices,	5:38		
Glasgow's Loop 'U' bridge, Solving	2:34	Complex			
problems at					

Authors					
performance of reinforced structures containing					
Quality assurance and ready-mixed — how do they match up?	4:22	Solving problems at Glasgow's Loop 'U' bridge	2:35	Allen, Arthur: Design and detail	9:27
Quality assurance in the construction industry	9:39	Some thoughts on precast concrete — its role and its future	3:10	Anderson, J M: Remote controlled hydrocrete	11:12
Quality concrete for Carsington Dam tunnel lining	3:29	Space saving spiral stairways	8:32	Baggergaard, B: CAA's role in the ready mixed industry	4:17
R, S		Span, World's longest	7:15	Bamforth, P B: Mass concrete foundations — benefits from OPC replacement	10:15
Rail bridge, The Cannon Street	5:30	Sprayed fibrous concrete tunnel support	11:9	Barber, P M: Analysis of fresh concrete	6:12
Reaction in concrete — assessing and minimising the risks	10:55	Stairways, Space saving spiral	8:32	Barfoot, Jack: A blockmaker rides the storm	8:21
Rebar system, Creteco launch new	5:16	Steel-fibre reinforced concrete II, Factors influencing the workability of	2:42	A broader base for a brighter future	10:46
Recent developments in Direct Electric Curing	3:21	Steel corrosion in concrete, A review of	6:13	A chance to meet Tony Cusens	9:12
Recent developments in plant for ready-mixed	4:14	Structural repairs	2:23	Belgian foothold on UK paving scene	8:25
Redundant!, Let's all subcontract our jobs and be made	5:23	Structural behaviour of concrete block paving	8:17	Browsing through bricks and brackets	6:44
Reinforcement		Structures in south west England, Part 1, Field investigation of concrete	3:54	Castles in the clouds	3:35
Continuity strips progress since Snow Award	9:19	Structures in south west England, Part 2, Field investigation of concrete	4:60	Civic pride at Swansea	1:25
Corrosion of reinforcement	6:48	Superflat concrete: an American approach	5:42	Complex panel design for Birmingham offices	5:38
Design and detail	9:27	Swansea, Civic pride at	1:28	Computerisation of housefloor company	8:36
Factors influencing the workability of steel-fibre reinforced concrete II	2:42	T, U		Concrete complements brick at Bristol	6:36
Fire resistance — the practical problems	9:21	Techniques, Dome building — modern	6:40	Croker's confidence in the Cumflow	9:42
In-service performance of reinforced concrete structures containing pulverised fuel ash	12:9	Temperatures, The residual strength of concrete subjected to elevated	12:22	Fresh to a franchise	9:46
Reinforcement product round up	9:30	Tendons, Grouting post-tensioned	11:32	Fully automated block production	2:46
Reinforcement fabrication — the next phase	9:16	Testing		GRC — an on-going story	4:42
Reinforcement today — where are we?	9:23	In-service performance of reinforced concrete structures containing pulverised fuel ash	12:9	Henke machines mark Beckett's success saga	7:47
Sea shells on the sea shore	9:53	Comparative cube testing — a review	12:19	How to make a concrete jacket	5:45
Remote controlled hydrocrete	11:12	Concrete testing — is performance assured?	12:17	Interlocking block paving by the acre	3:25
Repair, Concrete bridges — performance, maintenance and Repairs	3:48	Residual strength of concrete subjected to elevated temperatures, The	12:22	Lloyd's Room to last for a hundred years	4:36
Concrete repairs: the role of resin compositions		Revision of BS 1881, tests for concrete, The	12:6	Meeting the customer's demands	9:45
Fresh to a franchise		Thames Side House, Staines	1:31	New foundations for an ancient cottage	11:35
Influence of carbonation and chlorides on concrete durability		Theatre Car Park, Plymouth — CS Award	6:25	Past meets present at Fetter Lane	2:11
On site repairs to Airey houses		Award mention, Building category		Quality concrete for Carsington Dam tunnel lining	3:29
Product round up		Theatre Royal, Plymouth — CS Award	6:21	Selby Coalfield and a lone concrete structure	7:28
Repairs to cracks in concrete		joint winner, Building category		Site Practice Award 1983	11:21
Structural repairs		Towards better concrete — how?	11:37	Slender members with prestressing at Victoria	7:21
UK debut for German repair technique		Tunnel lining, Quality concrete for Carsington Dam	3:29	Solving problems at Glasgow's Loop 'U' bridge	2:34
Use of bond coats in concrete repair	8:34	Tunnelling		Space saving spiral stairways	8:32
Research resumé	2:36	Remote controlled hydrocrete	11:12	Sprayed fibrous concrete tunnel support	11:9
Residual strength of concrete subjected to elevated temperatures, The	12:22	Sprayed fibrous concrete tunnel support	11:9	The Associations — BACMI	10:33
Resin compositions, Concrete repair: the role of	2:19	Tunnels and tunnelling guide	11:17	Wave walls and arch units	11:27
Revision of BS 1881, tests for concrete, The	12:6	UK debut for German repair technique	8:40	Wokingham 'hi-tech' woodland wonder	10:37
Review of steel corrosion in concrete, A Road, UK's longest block paved	6:13	UK demo for US cutter	3:22	UK's longest block paved road	9:37
Saudi bridge, Dutch development helps complete	9:51	UK's longest block paved road	9:37	Up-market architectural ornamentation	11:30
Scottish special housing	1:32	Up-market architectural ornamentation	8:34	Barnbrook, George: A testing time for floor screeds	12:13
Screeds, A testing time for floor	12:13	Use of bond coats in concrete repair		Beckett, Derrick: Influence of carbonisation and chlorides on concrete durability	2:16
Sea shells on the sea shore	9:53	V, W, Y		Bell, A M: In-service performance of reinforced concrete structures containing pulverised fuel ash	12:9
'Sea view' old people's flats	1:32	Victoria, Slender members with prestressing at	7:21	Bennett, P E: Recent developments in plant for ready-mixed	4:14
Selby Coalfield and a lone concrete structure	7:28	Wave walls and arch units	11:27	Bentley, Trevor: Computer-based distribution control	4:15
Seen at Public Works	2:38	Weather enveloping, Year round building with	7:38	Bobrowski, Jan: Some thoughts on precast concrete — its role and its future	3:10
Site Practice Award 1982	1:20	West Glamorgan County Council Headquarters, Swansea — CS Award	6:25	Camden, John: Meeting Europe's needs for quality concrete	4:10
Site Practice Award 1983	11:23	commendation, Building category		Clarke, J L: Concrete offshore	3:36
Slender members with prestressing at Victoria	7:21	Wildfowl Centre designed for visual sensitivity	1:34		
Snow Award, Continuity strips	9:19	Whither falsework and formwork?	5:12		
		Wokingham 'hi-tech' woodland wonder	10:36		
		World of Concrete 1983	5:55		
		World's longest span	7:15		
		Year round building with weather enveloping	7:38		

structures — the next ten years			
Crawley, J D: Pre-placed aggregate foundations for Korean nuclear power plant	10:17	of reinforced concrete structures containing pulverised fuel ash	
Cousins, R: The Cannon Street rail bridge	5:30	Northcott, G D S: The revision of BS 1881, Tests for concrete	12:6
Curtis, R J: Hemel Hempstead's high bay warehouse	3:17	O'Grady, Michael: Structural behaviour of concrete block paving	8:17
Cusens, Tony: Towards better concrete — how?	11:37	Palanjian, A S: Factors influencing the workability of steel-fibre reinforced concrete II	2:42
Darroch, A S: Recent developments in Direct Electric Curing	3:21	Pallett, Peter: Joint report on formwork	5:13
Dixon, J F: Use of bond coats in concrete repair	8:34	Palmer, J D: Procedures and specifications	10:9
Donaldson, P K: Fire resistance — the practical problems	9:21	Pateman, John: Precast concrete in building — the economic alternative	8:28
Elliott, R L: Concrete testing — is performance assured?	12:17	Quality assurance and ready-mixed — how do they match up?	4:22
Farebrother, J E C: The Campaign for practical Codes of Practice	2:9	Perkins, Philip: Membranes in floor construction	1:23
Foot, P: Comparative cube testing — a review	12:19	Richardson, John: Progress in precast concrete	3:11
Garber, George: Superflat concrete: an American approach	5:42	Roberts, Alan: Year-round building with weather enveloping	7:38
Garwood, Tom: Concrete canoe construction	5:47	Roberty, P C: Structural repairs	2:23
Grant, Murray: Let's all sub-contract our jobs and be made redundant!	5:23	Rose, S: The mortar joint, friend or foe?	3:34
Gray, Angela: Cardiff flood protection	1:12	Ryan, Tim: Dome building — modern techniques	6:40
Harrison, T A: Formwork pressures	5:27	Sawczyc, Anne: King Canute couldn't do it...	5:33
Hart, P G: Grouting post-tensioned tendons	11:32	Site Practice Award 1983 (runner up) UK debut for German repair technique	11:25 8:40
Haywood, Norman: Aspects of driven in situ piling	10:23	Smith, M A: Anchorage design with finite element analysis	7:25
Hemmings, Melvyn: Piling — the decision making process	10:11	Sullivan, P J E: In-service performance of reinforced concrete structures containing pulverised fuel ash	12:9
Higgins, Denis: Repairs to cracks in concrete	2:26	Sunley, V K: Use of bond coats in concrete repair	8:34
Hobbs, C: Eurocodes	4:18	Tabor, Lawrie: Concrete repair: the role of resin compositions	2:19
Horstead, J: Precast block paving — a review	8:13	Taylor, J P J: Hemel Hempstead's high bay warehouse	3:17
Jones, Brian: Reinforcement today — where are we?	9:23	Thorburn, S: Foundation engineering — past, present and future	10:7
Kafry, I D: Recent developments in Direct Electric Curing	3:21	Thorpe, Walter: Partial prestressing	7:13
Khan, Sami: Principles of prestressed floors	10:42	Turner, F H: Prestressing in the eighties	7:11
Kirkbride, Tom: Harmonised international standard for concrete	4:21	Ward, R T: Complex formwork for cooling volutes	5:14
Lakomy, Anna: Inspection by borescope	6:64	Wardle, I F: Piled raft foundations — measurement of load and movement	10:13
Lambert, Derek: The Concrete Society Award 1983. Personal thoughts from the President	6:18	Warner, C D: Durability	4:27
Lancaster, Rex: Reinforcement fabrication — the next phase	9:16	Watson, Peter: Let's all subcontract our jobs and be made redundant!	5:23
Lee, David: Prestressed concrete — doing well but could do better	7:10	White, Alec: Falsework and formwork — state of the art	5:18
Littlejohn, G S: Pre-placed aggregate foundations for Korean nuclear power plant	10:17	Wilshire, Chris: Whither falsework and formwork?	5:12
Marks, Robin: Sea shells on the sea shore	9:53	Wittekind, Paul: A review of steel corrosion in concrete	6:13
Matthew, P W: Post-tensioned warehouse slabs	7:17	Woodward, R J: Cracks in a concrete bridge	7:40
Mohamedbhai, G T G: The residual strength of concrete subjected to elevated temperatures	12:23	Wyman, Robert: Cardiff flood protection	1:12
Murphy, W: The revision of BS 1881, Tests for concrete	12:6	Young, Bill: One code for concrete?	3:46
Narayanan, R: Factors influencing the workability of steel-fibre reinforced concrete II	2:42		
Neville, Adam: Corrosion of reinforcement	6:48	Concrete Society scene	
Newman, J B: In-service performance	12:9	1:37, 2:50, 3:40, 4:49, 5:52, 6:60, 7:30, 8:49, 9:56, 10:51, 11:41, 12:35	
		Historic concrete	
		No 95	2:35
		No 96	5:36
		News, products, plant, equipment	
		1:56, 2:58, 3:58, 4:67, 5:59, 6:66, 7:52, 8:56, 9:50, 10:59, 11:53, 12:41	
		Letters to the Editor	
		4:45, 6:75, 7:58, 8:54, 9:58, 10:57, 11:51, 12:39	
		A look at literature	
		4:54, 10:58	
		Current Practice Sheets	
		Air entrainment Part 2 by B V Brown	1:45
		Concrete in shafts and tunnels Part 1 by F A Auld	6:57
		Concrete in shafts and tunnels Part 2 by F A Auld	7:35
		High density concrete Part 1 by E W Miller	12:33
		Joining of reinforcement by A E Andrew	11:47
		Non destructive testing Part 1 by J H Bungey	8:45
		Non destructive testing Part 2 by J H Bungey	10:49
		Partial prestressing by A Tam	2:55
		Precast concrete housefloors by C A Rackham	3:51
		Steel reinforcement accessories by R I Lancaster	9:32
		Looking at it practically	
		Americana	5:37
		Cranes	8:31
		Detail	10:35
		Getting things moving	7:50
		GRC formwork	3:27
		Locating inclusions	9:38
		Movements	11:29
		Placing concrete	1:43
		Safe working with small dumpers	12:32
		Staircases	6:53
		Sitesafe 83	2:40
		Tilt up construction	4:47
		Correspondents	
		Beal, Alasdair	4:46
		Benaim, Robert	4:45
		Benstead, Dr John	9:58
		Brownlie, John D	4:45
		Cann, J	9:58
		Caswell, Derek G	8:55
		Comberbach, C D	9:58
		Dennis, R A	7:58
		Dixon, J F	12:39
		Farebrother, J E C	8:54
		Fenwick, R G	11:51
		Fooke, P G	9:58
		Grantham, M G	8:55
		Hewlett, Dr P C	11:51
		Higgins, Dr D D	10:57
		Hodgkinson, Allan	8:54
		Knapton, J	11:51
		Lancaster, Rex	6:75
		Lea, K	10:57
		Lewis, H E	4:45
		Neville, Adam	7:58
		Newman, Ken	9:58
		Osen, M P	10:57
		Roston, L	8:54
		Safier, A S	7:58
		Sunley, V K	12:39
		Tanner, J A	9:58
		Titman, Patrick	8:55
		Turton, C D	9:58
		Wall, R H	11:51

